

SERVICE MANUAL

CD DVD VCD MECHANISM

BASIC MECHANISM:KSM-210AAA

| TYPE |
|-------|
| S2RD |
| S2RDJ |

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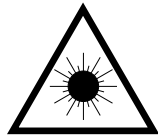
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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

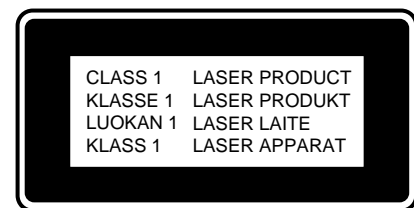
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

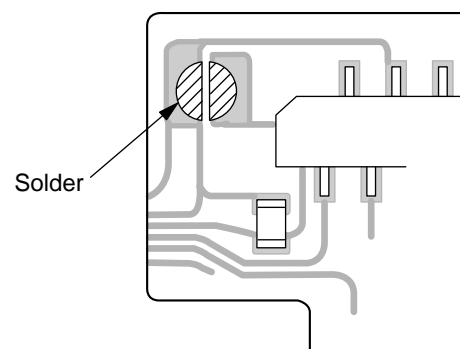


Precaution to replace Optical block (KHM-210AAA)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

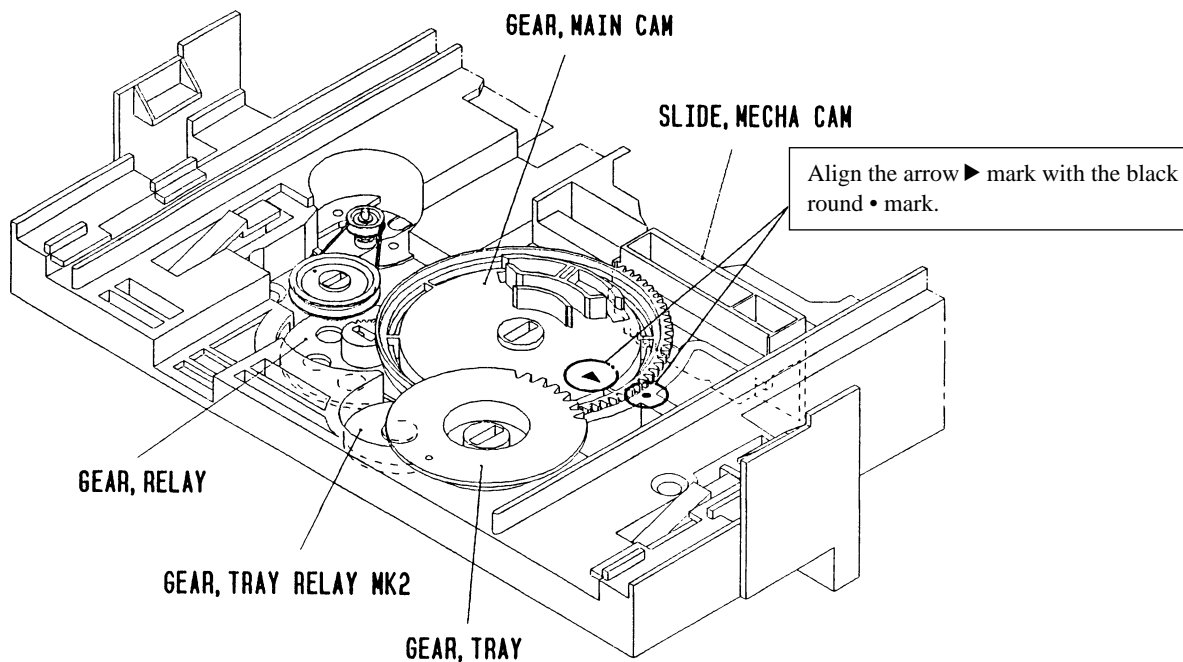
PICK-UP Assy P.C.B



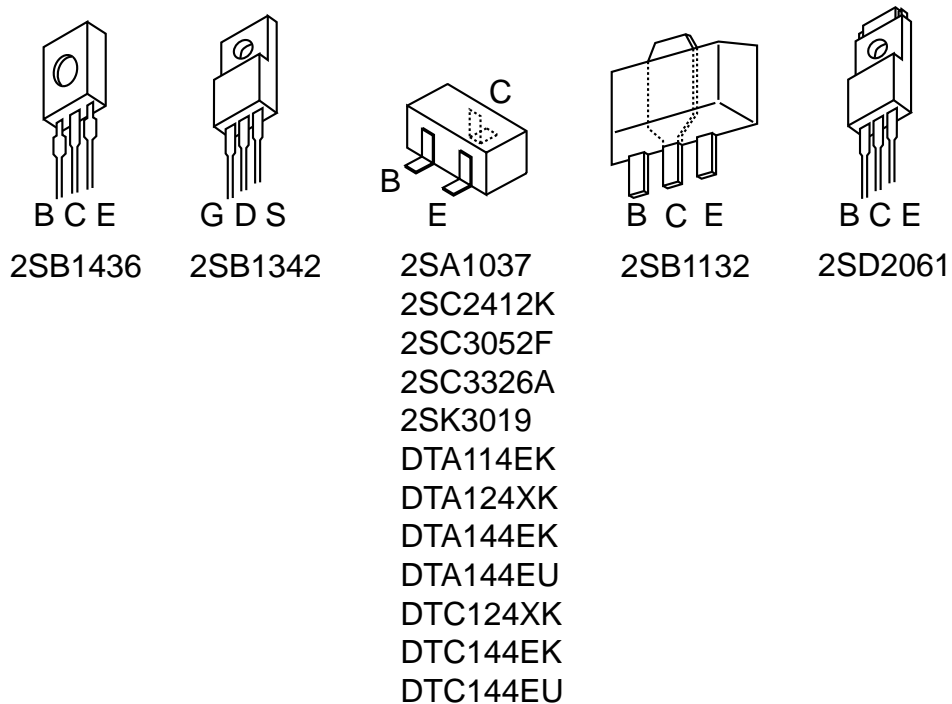
How to Adjust the Rotating Phase of the Gear, Main Cam

- 1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
- 2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
- 3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



TRANSISTOR ILLUSTRATION



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO | PART NO. | KANRI NO. | DESCRIPTION | REF. NO | PART NO. | KANRI NO. | DESCRIPTION |
|---------------|----------------|--------------------------|-------------|--------------|----------------|-----------|-----------------------|
| IC | | | | T-T C.B | | | |
| | 87-A20-602-040 | C-IC,M5291FP | | C401 | 87-018-214-080 | | CAP TC U 0.1-50F |
| | 87-A21-428-040 | C-IC,NJM2115M | | CON401 | 86-NFZ-675-010 | | CONN,5P H 6216-11H |
| | 87-017-825-010 | IC,GP1F32T | | | | | |
| | 8Z-ZJG-801-010 | C-IC,CXD1866R | | | | | |
| | 87-A21-315-040 | C-IC,GLT440L16-40TC | | | | | |
| | | | | DVD REAR C.B | | | |
| | 8Z-ZJG-802-010 | C-IC,CXD2598Q | | C2 | 87-010-235-080 | | CAP,E 470-16 SME |
| | 8Z-ZJG-803-010 | C-IC,CKP912032-121Q | | C4 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 8Z-ZJG-800-010 | C-IC,CXD1889R | | C5 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 87-A21-429-040 | C-IC,NJM2137M | | C6 | 87-010-101-080 | | CAP, ELECT 220-16 |
| | 87-A21-435-040 | C-IC,BA5983FP | | C7 | 87-010-101-080 | | CAP, ELECT 220-16 |
| | | | | | | | |
| | 87-002-929-080 | IC,NJM2901M | | C8 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 87-002-955-080 | IC,NJU4053B | | C9 | 87-010-235-080 | | CAP,E 470-16 SME |
| | 87-A21-440-040 | C-IC,SN74LS245NS | | C10 | 87-010-235-080 | | CAP,E 470-16 SME |
| | 87-017-859-080 | IC,TC7S00FU | | C11 | 87-010-805-080 | | CAP, S 1-16 |
| | 8Z-AV2-648-040 | C-IC,HN58X2416FPSRZ | | C12 | 87-012-140-080 | | CAP 470P |
| | | | | | | | |
| | 87-A21-304-010 | IC,LB1649 | | C13 | 87-010-178-080 | | CHIP CAP 1000P |
| | 8Z-AV2-628-010 | C-IC,HD6412350F20 | | C14 | 87-010-805-080 | | CAP, S 1-16 |
| | 87-A20-905-040 | C-IC,BA033FP | | C17 | 87-010-178-080 | | CHIP CAP 1000P |
| | 87-A20-185-040 | C-IC,PST600DMT | | C18 | 87-010-178-080 | | CHIP CAP 1000P |
| | 87-001-551-080 | IC,TC7S08F | | C19 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | | | | | | | |
| | 8Z-ZJH-600-010 | C-IC,M27C802CZ-H0 | | C21 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| | 8Z-AV2-629-010 | C-IC,W24512AT-15 | | C22 | 87-010-382-080 | | CAP, ELECT 22-25V |
| | 8Z-AV2-630-010 | C-IC,L64021D | | C25 | 87-010-380-080 | | CAP, ELECT 47-16V |
| | 8Z-AV2-633-010 | C-IC,MB81F161622B | | C26 | 87-010-235-080 | | CAP,E 470-16 SME |
| | 87-017-888-080 | IC,NJM4558MD | | C27 | 87-010-248-080 | | CAP, ELECT 220-10V |
| | | | | | | | |
| | 87-A20-689-080 | C-IC,PCM1723 | | C28 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 87-A21-330-040 | C-IC,SN74AHC1G04DBV | | C29 | 87-010-248-080 | | CAP, ELECT 220-10V |
| | 87-A21-251-010 | C-IC,MC44724A | | C30 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 87-017-453-080 | IC,NJM2267M | | C31 | 87-010-248-080 | | CAP, ELECT 220-10V |
| | 87-017-750-080 | IC,MM1041XM | | C32 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | | | | | | | |
| | 87-A21-447-080 | C-IC,BU4S81 | | C45 | 87-010-265-080 | | CAP,E 33-16 11L |
| | 87-001-795-040 | C-IC,TC74HC74AF | | C50 | 87-010-380-080 | | CAP, ELECT 47-16V |
| | 87-001-604-080 | IC,TC74HCU04F | | C51 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 87-070-224-080 | IC,TC74HCT00AF | | C101 | 87-010-190-080 | | S CHIP F 0.01 |
| | | | | C102 | 87-016-044-080 | | CAP,E 100-16 5L GAS |
| | | | | | | | |
| TRANSISTOR | | | | C103 | 87-010-382-080 | | CAP, ELECT 22-25V |
| | | | | C104 | 87-010-190-080 | | S CHIP F 0.01 |
| | 87-A30-255-010 | TR,2SB1342 | | C202 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| | 87-A30-217-010 | TR,2SB1436(R) | | C203 | 87-016-044-080 | | CAP,E 100-16 5L GAS |
| | 87-026-231-080 | CHIP-TRANSISTER,DTA124XK | | C204 | 87-010-248-080 | | CAP,E 220-10 SME |
| | 87-026-237-080 | CHIP-TR,DTC124XK | | | | | |
| | 87-A30-359-040 | C-TR,DTA144EUA | | C206 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| | | | | C207 | 87-010-498-080 | | CAP,E 10-16 GAS |
| | 89-420-612-010 | TR,2SD2061 (2W) | | C208 | 87-010-498-080 | | CAP,E 10-16 GAS |
| | 87-A30-360-040 | C-TR,DTC144EUA | | C209 | 87-010-186-080 | | CAP,CHIP 4700P |
| | 87-A30-076-080 | C-TR,2SC3052F | | C210 | 87-010-186-080 | | CAP,CHIP 4700P |
| | 89-211-323-080 | C-TR,2SB1132R | | | | | |
| | 87-A30-362-040 | C-TR,2SK3019 | | C211 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| | | | | C212 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| | 87-026-210-080 | CHIP-TR,DTC144EK | | C213 | 87-010-175-080 | | C-CAP,S 560P-50 SL |
| | 87-026-227-080 | CHIP-TR,DTA114EK | | C214 | 87-010-175-080 | | C-CAP,S 560P-50 SL |
| | 89-333-265-080 | TR,2SC3326A | | C215 | 87-010-498-080 | | CAP,E 10-16 GAS |
| | 89-110-372-080 | TR,2SA1037(140MHZ 200MW) | | | | | |
| | 89-324-123-080 | C-TR,2SC2412K S | | C216 | 87-010-498-080 | | CAP,E 10-16 GAS |
| | | | | C217 | 87-010-180-080 | | C-CER 1500P |
| | 87-026-211-080 | TR,DTA144EK | | C218 | 87-010-180-080 | | C-CER 1500P |
| | | | | C219 | 87-012-156-080 | | C-CAP,S 220P-50 CH |
| | | | | C220 | 87-012-156-080 | | C-CAP,S 220P-50 CH |
| | | | | | | | |
| DIODE | | | | C301 | 87-010-498-080 | | CAP,E 10-16 GAS |
| | 87-A40-313-080 | C-DIODE,MC 2840 | | C302 | 87-010-497-080 | | CAP,E 4.7-35 5L |
| | 87-070-335-080 | ZENER,MTZJ8.2B | | C303 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| | 87-A40-614-040 | C-DIODE,SFPB-72 | | C304 | 87-010-497-080 | | CAP,E 4.7-35 5L |
| | 87-017-779-080 | C-DIODE,1SS355 | | C305 | 87-010-499-080 | | CAP,E 22-6.3 SRE |
| | 87-017-932-080 | ZENER,MTJ6.2B | | | | | |
| | | | | C306 | 87-010-555-080 | | CAP,E 100-10 GAS |
| | 87-A40-464-080 | ZENER,MTZJ3.6A | | C307 | 87-010-499-080 | | CAP,E 22-6.3 SRE |
| | 87-020-027-080 | CHIP-DIODE 1SS184 | | C308 | 87-010-555-080 | | CAP,E 100-10 GAS |
| | | | | C311 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| | | | | C312 | 87-010-197-080 | | CAP, CHIP 0.01 DM |
| EXTENSION C.B | | | | | | | |
| CN510 | 87-009-754-010 | CONN,13P PH H | | C313 | 87-010-196-080 | | CHIP CAPACITOR,0.1-25 |
| CN511 | 87-099-570-010 | CONN,13P TUC-P13P-B1 | | C316 | 87-010-322-080 | | C-CAP,S 100P-50 CH |
| | | | | C513 | 87-010-322-080 | | C-CAP,S 100P-50 CH |

| REF. NO | PART NO. | KANRI NO. | DESCRIPTION | REF. NO | PART NO. | KANRI NO. | DESCRIPTION |
|---------|----------------|-------------------------|-------------|---------|----------------|-------------------------------|-------------|
| C515 | 87-010-322-080 | C-CAP,S 100P-50 CH | | C213 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN1 | 84-722-632-010 | CONN,2P H | | C214 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN2 | 87-099-209-010 | CONN,4P 6216H | | C215 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN101 | 87-099-212-010 | CONN,5P 6216 V | | C216 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN501 | 87-099-030-010 | CONN,13P 6216H | | C217 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN502 | 87-A61-089-010 | CONN,14P H GRY FMN-SSTK | | C218 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN503 | 87-A61-088-010 | CONN,6P H GRY FMN-SSTK | | C219 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN504 | 87-A61-091-010 | CONN,9P H 6232 DIP | | C220 | 87-012-286-080 | CAP, U 0.01-25 | |
| CN505 | 87-A60-904-010 | CONN,10P H BLK FMN-STRK | | C221 | 87-012-286-080 | CAP, U 0.01-25 | |
| CNA10 | 88-805-052-620 | CONN ASSY,5P | | C222 | 87-012-286-080 | CAP, U 0.01-25 | |
| CNA11 | 88-805-061-020 | CONN ASSY,6P | | C223 | 87-012-286-080 | CAP, U 0.01-25 | |
| FB301 | 87-005-786-080 | F-BEAD,BL03RN2 | | C224 | 87-012-286-080 | CAP, U 0.01-25 | |
| FB302 | 87-005-786-080 | F-BEAD,BL03RN2 | | C225 | 87-012-171-080 | C-CAP,U 9P-50 CH | |
| FB303 | 87-005-786-080 | F-BEAD,BL03RN2 | | C226 | 87-012-196-080 | C-CAP,U 120P-50 CH | |
| J301 | 87-A60-127-010 | JACK,Y/CYKF51.5503 | | C230 | 87-012-286-080 | CAP, U 0.01-25 | |
| J302 | 87-009-502-010 | JACK,PIN 1P Y EARTH | | C232 | 87-012-286-080 | CAP, U 0.01-25 | |
| JR4 | 87-A50-189-080 | C-COIL,S BLM21B272S | | C233 | 87-012-286-080 | CAP, U 0.01-25 | |
| JR302 | 87-A50-189-080 | C-COIL,S BLM21B272S | | C234 | 87-012-171-080 | C-CAP,U 9P-50 CH | |
| L2 | 87-A50-517-080 | COIL,10UHK FLR88 | | C235 | 87-012-286-080 | CAP, U 0.01-25 | |
| L3 | 87-A50-517-080 | COIL,10UHK FLR88 | | C236 | 87-010-235-080 | CAP, E 470-16 | |
| L6 | 87-A50-549-010 | COIL,68UH RCH110 | | C237 | 87-010-248-080 | CAP, E 220-10 | |
| L301 | 87-005-436-080 | COIL,22UH FLR50,K | | C238 | 87-012-196-080 | C-CAP,U 120P-50 CH | |
| PS401 | 87-026-573-010 | IC,GP1S53V | | C239 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| S101 | 87-A91-500-010 | SW,MICRO MPU11470MLB0 | | C241 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| S102 | 87-A91-500-010 | SW,MICRO MPU11470MLB0 | | C243 | 87-012-176-080 | CAP 15P | |
| BE CB | | | | C244 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| BPF301 | 8Z-AV2-634-080 | FLTR,LPF RZV-2XCXN | | C245 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| BPF302 | 8Z-AV2-634-080 | FLTR,LPF RZV-2XCXN | | C248 | 87-012-174-080 | CAP CHIP CERA SS 12P CHJ | |
| BPF303 | 8Z-AV2-634-080 | FLTR,LPF RZV-2XCXN | | C249 | 87-A11-144-080 | CAP, U 0.1-50 | |
| C101 | 87-012-286-080 | CAP, U 0.01-25 | | C300 | 87-012-286-080 | CAP, U 0.01-25 | |
| C102 | 87-012-286-080 | CAP, U 0.01-25 | | C301 | 87-016-428-080 | C-CAP,E 47-16 5.5N | |
| C104 | 87-012-286-080 | CAP, U 0.01-25 | | C302 | 87-012-286-080 | CAP, U 0.01-25 | |
| C105 | 87-012-286-080 | CAP, U 0.01-25 | | C303 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C108 | 87-016-428-080 | C-CAP,E 47-16 5.5N | | C304 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C109 | 87-012-286-080 | CAP, U 0.01-25 | | C305 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C112 | 87-012-286-080 | CAP, U 0.01-25 | | C306 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C113 | 87-012-286-080 | CAP, U 0.01-25 | | C307 | 87-012-286-080 | CAP, U 0.01-25 | |
| C114 | 87-012-172-080 | CAPACITOR CHIP U 10P CH | | C308 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C115 | 87-016-428-080 | C-CAP,E 47-16 5.5N | | C310 | 87-012-286-080 | CAP, U 0.01-25 | |
| C117 | 87-012-172-080 | CAPACITOR CHIP U 10P CH | | C311 | 87-016-428-080 | C-CAP,E 47-16 5.5N | |
| C119 | 87-012-286-080 | CAP, U 0.01-25 | | C312 | 87-012-286-080 | CAP, U 0.01-25 | |
| C120 | 87-012-286-080 | CAP, U 0.01-25 | | C313 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C121 | 87-012-286-080 | CAP, U 0.01-25 | | C315 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C122 | 87-016-428-080 | C-CAP,E 47-16 5.5N | | C316 | 87-010-831-080 | C-CAP,U,0.1-16F | |
| C123 | 87-012-286-080 | CAP, U 0.01-25 | | C317 | 87-010-848-080 | C-CAP,10-16V | |
| C124 | 87-012-286-080 | CAP, U 0.01-25 | | C318 | 87-012-286-080 | CAP, U 0.01-25 | |
| C125 | 87-010-848-080 | C-CAP,10-16V | | C319 | 87-012-182-080 | C-CAP,U 27P-50 CH | |
| C126 | 87-012-286-080 | CAP, U 0.01-25 | | C320 | 87-012-182-080 | C-CAP,U 27P-50 CH | |
| C127 | 87-012-286-080 | CAP, U 0.01-25 | | C324 | 87-012-182-080 | C-CAP,U 27P-50 CH | |
| C128 | 87-012-286-080 | CAP, U 0.01-25 | | C325 | 87-012-182-080 | C-CAP,U 27P-50 CH | |
| C129 | 87-012-286-080 | CAP, U 0.01-25 | | C329 | 87-012-182-080 | C-CAP,U 27P-50 CH | |
| C130 | 87-010-848-080 | C-CAP,10-16V | | C330 | 87-012-182-080 | C-CAP,U 27P-50 CH | |
| C131 | 87-012-286-080 | CAP, U 0.01-25 | | CN100 | 87-A60-942-080 | C-CONN,5P V PH-SM3-TB | |
| C132 | 87-010-848-080 | C-CAP,10-16V | | CN102 | 87-A60-889-080 | C-CONN,10P V FMN-BMTTN-TF | |
| C134 | 87-012-286-080 | CAP, U 0.01-25 | | CN200 | 87-A60-790-080 | C-CONN,28P V 28FLT-SM1TB | |
| C200 | 87-012-286-080 | CAP, U 0.01-25 | | CN201 | 87-A60-892-080 | C-CONN,20P V FLT-SM1-TB | |
| C201 | 87-012-286-080 | CAP, U 0.01-25 | | CN202 | 87-A60-852-080 | C-CONN,6P V FMN-BMTTNTF | |
| C202 | 87-016-428-080 | C-CAP,E 47-16 5.5N | | CN300 | 87-A60-891-080 | C-CONN,14P V FMN-BMTTN-TF | |
| C203 | 87-010-848-080 | C-CAP,10-16V | | CN301 | 87-A60-888-080 | C-CONN,9P V FMN-BMTTN-TF | |
| C204 | 87-012-286-080 | CAP, U 0.01-25 | | J106 | 87-A61-145-010 | C-SOCKET,IC 2-44P IC179-44600 | |
| C205 | 87-012-286-080 | CAP, U 0.01-25 | | L100 | 87-005-799-080 | C-COIL, 1UH FLC32 | |
| C206 | 87-012-286-080 | CAP, U 0.01-25 | | L101 | 87-005-799-080 | C-COIL, 1UH FLC32 | |
| C207 | 87-012-278-080 | C-CAP,U 2200P-50 B | | L102 | 87-005-799-080 | C-COIL, 1UH FLC32 | |
| C208 | 87-012-286-080 | CAP, U 0.01-25 | | L200 | 87-005-799-080 | C-COIL, 1UH FLC32 | |
| C209 | 87-012-286-080 | CAP, U 0.01-25 | | L201 | 87-005-799-080 | C-COIL, 1UH FLC32 | |
| C210 | 87-016-428-080 | C-CAP,E 47-16 5.5N | | L202 | 87-005-803-080 | C-COIL,2.2UH JFLC32 | |
| C211 | 87-012-286-080 | CAP, U 0.01-25 | | L204 | 87-005-803-080 | C-COIL,2.2UH JFLC32 | |
| C212 | 87-012-286-080 | CAP, U 0.01-25 | | L205 | 87-005-815-080 | C-COIL, 22UH J FLC32 | |
| | | | | L300 | 87-005-803-080 | C-COIL,2.2UH JFLC32 | |

| REF. NO | PART NO. | KANRI NO. | DESCRIPTION | REF. NO | PART NO. | KANRI NO. | DESCRIPTION |
|---------|----------------|-------------------------|-------------|---------|----------------|-----------------------------|-------------|
| L301 | 87-005-815-080 | C-COIL, 22UH J FLC32 | | C76 | 87-010-805-080 | CAP, S 1-16 | |
| L302 | 87-005-811-080 | C-COIL, 10UH J FLC32 | | C77 | 87-010-805-080 | CAP, S 1-16 | |
| L303 | 87-005-817-080 | C-COIL, 33UH J FLC32 | | C78 | 87-010-805-080 | CAP, S 1-16 | |
| L307 | 87-005-817-080 | C-COIL, 33UH J FLC32 | | C80 | 87-010-843-080 | C-CAP,E 1-50 M 5.5L MV | |
| L308 | 87-005-817-080 | C-COIL, 33UH J FLC32 | | C81 | 87-010-154-080 | CAP CHIP 10P | |
| R233 | 87-A91-502-080 | C-F-BEAD, BLM11B750SA | | C82 | 87-010-805-080 | CAP, S 1-16 | |
| R237 | 87-A91-480-080 | C-F-BEAD, BK1608 HS121 | | C83 | 87-010-154-080 | CAP CHIP 10P | |
| R238 | 87-A91-649-080 | C-F-BEAD, BK1608HM471 | | C84 | 87-010-805-080 | CAP, S 1-16 | |
| R239 | 87-A91-480-080 | C-F-BEAD, BK1608 HS121 | | C87 | 87-A11-975-080 | C-CAP,E 47-16 M 5.5L MV | |
| R241 | 87-A91-480-080 | C-F-BEAD, BK1608 HS121 | | C88 | 87-010-805-080 | CAP, S 1-16 | |
| FE C.B | | | | C89 | 87-010-197-080 | CAP, CHIP 0.01 DM | |
| C1 | 87-010-805-080 | CAP, S 1-16 | | C90 | 87-A11-973-080 | C-CAP,E 1000-6.3 M 10.5L MV | |
| C2 | 87-010-805-080 | CAP, S 1-16 | | C91 | 87-010-184-080 | CHIP CAPACITOR 3300P(K) | |
| C3 | 87-016-081-080 | C-CAP,S 0.1-16 RK | | C92 | 87-010-180-080 | C-CER 1500P | |
| C4 | 87-010-805-080 | CAP, S 1-16 | | C93 | 87-010-805-080 | CAP, S 1-16 | |
| C7 | 87-010-992-080 | C-CAP,S 0.047-25 B | | C94 | 87-010-805-080 | CAP, S 1-16 | |
| C8 | 87-012-358-080 | C-CAP,S 0.47-10 F Z | | C95 | 87-010-184-080 | CHIP CAPACITOR 3300P(K) | |
| C9 | 87-010-805-080 | CAP, S 1-16 | | C96 | 87-010-180-080 | C-CER 1500P | |
| C12 | 87-012-358-080 | C-CAP,S 0.47-10 F Z | | C97 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C13 | 87-010-186-080 | CAP,CHIP 4700P | | C98 | 87-010-197-080 | CAP, CHIP 0.01 DM | |
| C14 | 87-016-081-080 | C-CAP,S 0.1-16 RK | | C99 | 87-010-992-080 | C-CAP,S 0.047-25 B | |
| C15 | 87-010-805-080 | CAP, S 1-16 | | C100 | 87-010-992-080 | C-CAP,S 0.047-25 B | |
| C16 | 87-010-197-080 | CAP, CHIP 0.01 DM | | C101 | 87-010-182-080 | C-CAP,S 2200P-50 B | |
| C17 | 87-010-805-080 | CAP, S 1-16 | | C103 | 87-010-182-080 | C-CAP,S 2200P-50 B | |
| C18 | 87-012-156-080 | C-CAP,S 220P-50 CH | | C104 | 87-010-182-080 | C-CAP,S 2200P-50 B | |
| C19 | 87-016-081-080 | C-CAP,S 0.1-16 RK | | C105 | 87-010-182-080 | C-CAP,S 2200P-50 B | |
| C23 | 87-012-140-080 | CAP 470P | | C106 | 87-012-157-080 | C-CAP,S 330P-50 CH | |
| C24 | 87-010-805-080 | CAP, S 1-16 | | C107 | 87-010-197-080 | CAP, CHIP 0.01 DM | |
| C25 | 87-010-805-080 | CAP, S 1-16 | | C108 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C26 | 87-010-805-080 | CAP, S 1-16 | | C109 | 87-010-992-080 | C-CAP,S 0.047-25 B | |
| C29 | 87-010-805-080 | CAP, S 1-16 | | C110 | 87-012-154-080 | C-CAP,S 150P-50 CH | |
| C30 | 87-010-805-080 | CAP, S 1-16 | | C111 | 87-012-140-080 | CAP 470P | |
| C31 | 87-010-805-080 | CAP, S 1-16 | | C112 | 87-A11-975-080 | C-CAP,E 47-16 M 5.5L MV | |
| C32 | 87-010-805-080 | CAP, S 1-16 | | C113 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C33 | 87-010-805-080 | CAP, S 1-16 | | C114 | 87-016-369-080 | C-CAP,S 0.033-25 B K | |
| C35 | 87-010-805-080 | CAP, S 1-16 | | C116 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C36 | 87-010-805-080 | CAP, S 1-16 | | C117 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C37 | 87-010-805-080 | CAP, S 1-16 | | C118 | 87-010-197-080 | CAP, CHIP 0.01 DM | |
| C38 | 87-010-805-080 | CAP, S 1-16 | | C119 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C39 | 87-010-805-080 | CAP, S 1-16 | | C120 | 87-010-805-080 | CAP, S 1-16 | |
| C40 | 87-016-081-080 | C-CAP,S 0.1-16 RK | | C122 | 87-A11-975-080 | C-CAP,E 47-16 M 5.5L MV | |
| C41 | 87-010-805-080 | CAP, S 1-16 | | C123 | 87-A12-049-080 | C-CAP,E 33-10 M 5.5 MV | |
| C42 | 87-010-805-080 | CAP, S 1-16 | | C124 | 87-012-349-080 | C-CAP,S 1000P-50 CH | |
| C43 | 87-010-805-080 | CAP, S 1-16 | | C125 | 87-A11-975-080 | C-CAP,E 47-16 M 5.5L MV | |
| C44 | 87-010-805-080 | CAP, S 1-16 | | C126 | 87-A11-978-080 | C-CAP,E 10-35 M 5.5L MV | |
| C46 | 87-A11-978-080 | C-CAP,E 10-35 M 5.5L MV | | C127 | 87-A11-978-080 | C-CAP,E 10-35 M 5.5L MV | |
| C47 | 87-010-805-080 | CAP, S 1-16 | | C128 | 87-A11-978-080 | C-CAP,E 10-35 M 5.5L MV | |
| C48 | 87-010-197-080 | CAP, CHIP 0.01 DM | | C129 | 87-A11-978-080 | C-CAP,E 10-35 M 5.5L MV | |
| C49 | 87-016-081-080 | C-CAP,S 0.1-16 RK | | C131 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C50 | 87-010-805-080 | CAP, S 1-16 | | C132 | 87-012-154-080 | C-CAP,S 150P-50 CH | |
| C51 | 87-016-081-080 | C-CAP,S 0.1-16 RK | | C133 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C52 | 87-010-956-080 | CHIP-CAP,S 0.068-25B | | C134 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C54 | 87-010-197-080 | CAP, CHIP 0.01 DM | | C135 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C55 | 87-010-322-080 | C-CAP,S 100P-50 CH | | C136 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C56 | 87-010-805-080 | CAP, S 1-16 | | C137 | 87-010-805-080 | CAP, S 1-16 | |
| C57 | 87-010-180-080 | C-CER 1500P | | C138 | 87-012-157-080 | C-CAP,S 330P-50 CH | |
| C58 | 87-010-805-080 | CAP, S 1-16 | | C140 | 87-A11-976-080 | C-CAP,E 470-16 M 10.5L MV | |
| C59 | 87-010-320-080 | CHIP CAP 68P | | C141 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C60 | 87-010-992-080 | C-CAP,S 0.047-25 B | | C142 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C61 | 87-A11-975-080 | C-CAP,E 47-16 M 5.5L MV | | C143 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C62 | 87-010-805-080 | CAP, S 1-16 | | C144 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C63 | 87-012-145-080 | CAP, CHIP S 270P CH | | C145 | 87-016-081-080 | C-CAP,S 0.1-16 RK | |
| C65 | 87-010-805-080 | CAP, S 1-16 | | C148 | 87-010-182-080 | C-CAP,S 2200P-50 B | |
| C66 | 87-010-152-080 | C-CAP,S 8P-50 CH | | C149 | 87-010-319-080 | C-CAP,S 56P-50 CH | |
| C67 | 87-010-805-080 | CAP, S 1-16 | | C150 | 87-010-992-080 | C-CAP,S 0.047-25 B | |
| C68 | 87-010-805-080 | CAP, S 1-16 | | C151 | 87-012-157-080 | C-CAP,S 330P-50 CH | |
| C69 | 87-010-152-080 | C-CAP,S 8P-50 CH | | C152 | 87-010-956-080 | CHIP-CAP,S 0.068-25B | |
| C71 | 87-010-805-080 | CAP, S 1-16 | | C154 | 87-010-992-080 | C-CAP,S 0.047-25 B | |
| | | | | C156 | 87-010-319-080 | C-CAP,S 56P-50 CH | |
| | | | | C157 | 87-012-157-080 | C-CAP,S 330P-50 CH | |

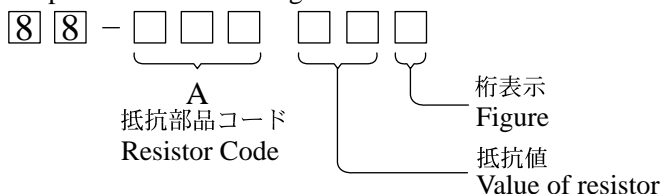
| REF. NO | PART NO. | KANRI NO. | DESCRIPTION | REF. NO | PART NO. | KANRI NO. | DESCRIPTION |
|---------|----------------|-----------|-----------------------------|---------|----------------|-----------|--------------------------------|
| C160 | 87-010-956-080 | | CHIP-CAP,S 0.068-25B | C703 | 87-A11-976-080 | | C-CAP,E 470-16 M 10.5L MV |
| C163 | 87-010-805-080 | | CAP, S 1-16 | C704 | 87-016-081-080 | | C-CAP,S 0.1-16 RK |
| C165 | 87-010-805-080 | | CAP, S 1-16 | C705 | 87-A11-976-080 | | C-CAP,E 470-16 M 10.5L MV |
| C166 | 87-010-805-080 | | CAP, S 1-16 | C706 | 87-016-081-080 | | C-CAP,S 0.1-16 RK |
| C167 | 87-010-805-080 | | CAP, S 1-16 | C707 | 87-A11-976-080 | | C-CAP,E 470-16 M 10.5L MV |
| C168 | 87-010-805-080 | | CAP, S 1-16 | C708 | 87-A11-976-080 | | C-CAP,E 470-16 M 10.5L MV |
| C174 | 87-A11-977-080 | | C-CAP,E 2.2-35 M 5.5L MV | C709 | 87-016-081-080 | | C-CAP,S 0.1-16 RK |
| C175 | 87-010-184-080 | | CHIP CAPACITOR 3300P(K) | C710 | 87-A11-976-080 | | C-CAP,E 470-16 M 10.5L MV |
| C176 | 87-010-321-080 | | CHIP CAPACITOR,82P(J) | C711 | 87-016-081-080 | | C-CAP,S 0.1-16 RK |
| C177 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | C712 | 87-016-369-080 | | C-CAP,S 0.033-25 B K |
| C178 | 87-010-314-080 | | C-CAP,S 22P-50V | C713 | 87-016-081-080 | | C-CAP,S 0.1-16 RK |
| C179 | 87-010-314-080 | | C-CAP,S 22P-50V | C714 | 87-016-081-080 | | C-CAP,S 0.1-16 RK |
| C181 | 87-010-314-080 | | C-CAP,S 22P-50V | C715 | 87-010-805-080 | | CAP, S 1-16 |
| C182 | 87-010-314-080 | | C-CAP,S 22P-50V | C801 | 87-010-805-080 | | CAP, S 1-16 |
| C183 | 87-010-805-080 | | CAP, S 1-16 | C802 | 87-010-805-080 | | CAP, S 1-16 |
| C184 | 87-010-805-080 | | CAP, S 1-16 | C803 | 87-010-805-080 | | CAP, S 1-16 |
| C199 | 87-010-805-080 | | CAP, S 1-16 | C804 | 87-010-805-080 | | CAP, S 1-16 |
| C201 | 87-A11-975-080 | | C-CAP,E 47-16 M 5.5L MV | CN4 | 87-A61-135-080 | | C-CONN,21P V 6232-121-006-800 |
| C202 | 87-010-805-080 | | CAP, S 1-16 | CN5 | 87-A61-062-080 | | C-CONN,6P V PH-SM3-TB |
| C204 | 87-A11-978-080 | | C-CAP,E 10-35 M 5.5L MV | CN700 | 87-A61-144-080 | | C-CONN,6P H PH-SM3-TB |
| C209 | 87-010-805-080 | | CAP, S 1-16 | CN701 | 87-A60-790-080 | | C-CONN,28P V 28FLT-SM1TB |
| C210 | 87-010-149-080 | | C-CAP,S 5P-50 CH | CN702 | 87-A60-892-080 | | C-CONN,20P V FLT-SM1-TB |
| C211 | 87-010-149-080 | | C-CAP,S 5P-50 CH | FB4 | 87-A50-192-080 | | C-COIL,S BLM21P300S |
| C212 | 87-A11-978-080 | | C-CAP,E 10-35 M 5.5L MV | FB700 | 87-A50-192-080 | | C-COIL,S BLM21P300S |
| C213 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | FB701 | 87-A50-192-080 | | C-COIL,S BLM21P300S |
| C214 | 87-010-805-080 | | CAP, S 1-16 | FB702 | 87-A50-192-080 | | C-COIL,S BLM21P300S |
| C215 | 87-010-805-080 | | CAP, S 1-16 | FB703 | 87-A50-192-080 | | C-COIL,S BLM21P300S |
| C216 | 87-010-805-080 | | CAP, S 1-16 | L3 | 87-005-781-080 | | C-COIL,47UH FLC32C |
| C217 | 87-010-182-080 | | C-CAP,S 2200P-50 B | L4 | 87-005-781-080 | | C-COIL,47UH FLC32C |
| C218 | 87-010-182-080 | | C-CAP,S 2200P-50 B | R75 | 87-A91-648-080 | | C-F-BEAD, BK2125HS241 |
| C219 | 87-010-182-080 | | C-CAP,S 2200P-50 B | R76 | 87-A91-648-080 | | C-F-BEAD, BK2125HS241 |
| C221 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | R90 | 87-A91-648-080 | | C-F-BEAD, BK2125HS241 |
| C222 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | R118 | 87-A91-648-080 | | C-F-BEAD, BK2125HS241 |
| C223 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | X2 | 87-A70-231-080 | | C-VIB,XTAL 33.8688MHZ HC-49/U0 |
| C224 | 87-A11-973-080 | | C-CAP,E 1000-6.3 M 10.5L MV | X3 | 87-A70-194-080 | | C-VIB,XTAL 20MHZ HC-49/U03C |
| C225 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | | | | |
| C240 | 87-010-145-080 | | C-CAP,S 1P-50 CH | | | | |
| C242 | 87-010-805-080 | | CAP, S 1-16 | | | | |
| C246 | 87-010-805-080 | | CAP, S 1-16 | | | | |
| C247 | 87-010-805-080 | | CAP, S 1-16 | | | | |
| C248 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | | | | |
| C250 | 87-A11-978-080 | | C-CAP,E 10-35 M 5.5L MV | | | | |
| C251 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | | | | |
| C253 | 87-A11-978-080 | | C-CAP,E 10-35 M 5.5L MV | | | | |
| C702 | 87-016-081-080 | | C-CAP,S 0.1-16 RK | | | | |

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.


チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

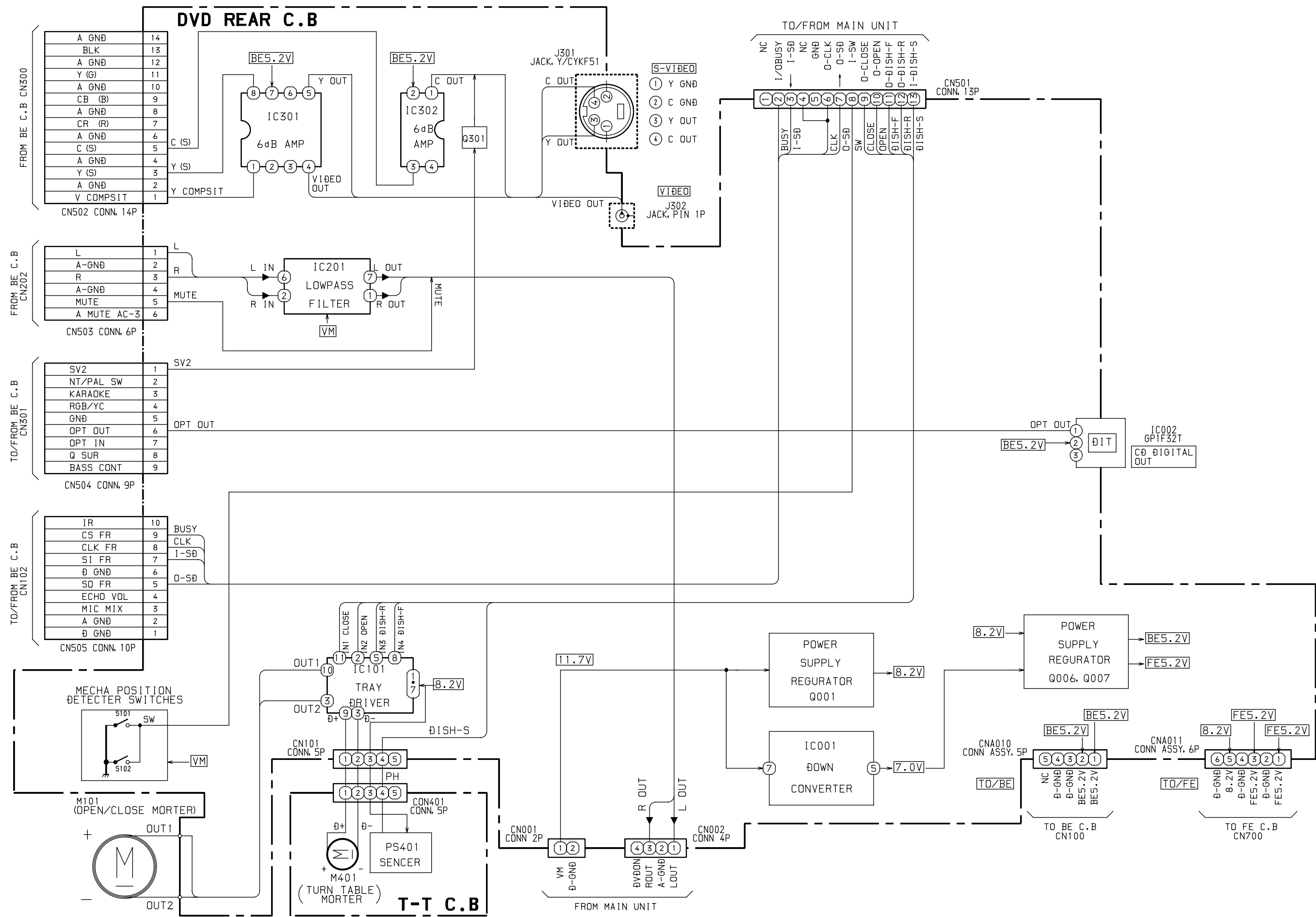
Chip Resistor Part Coding



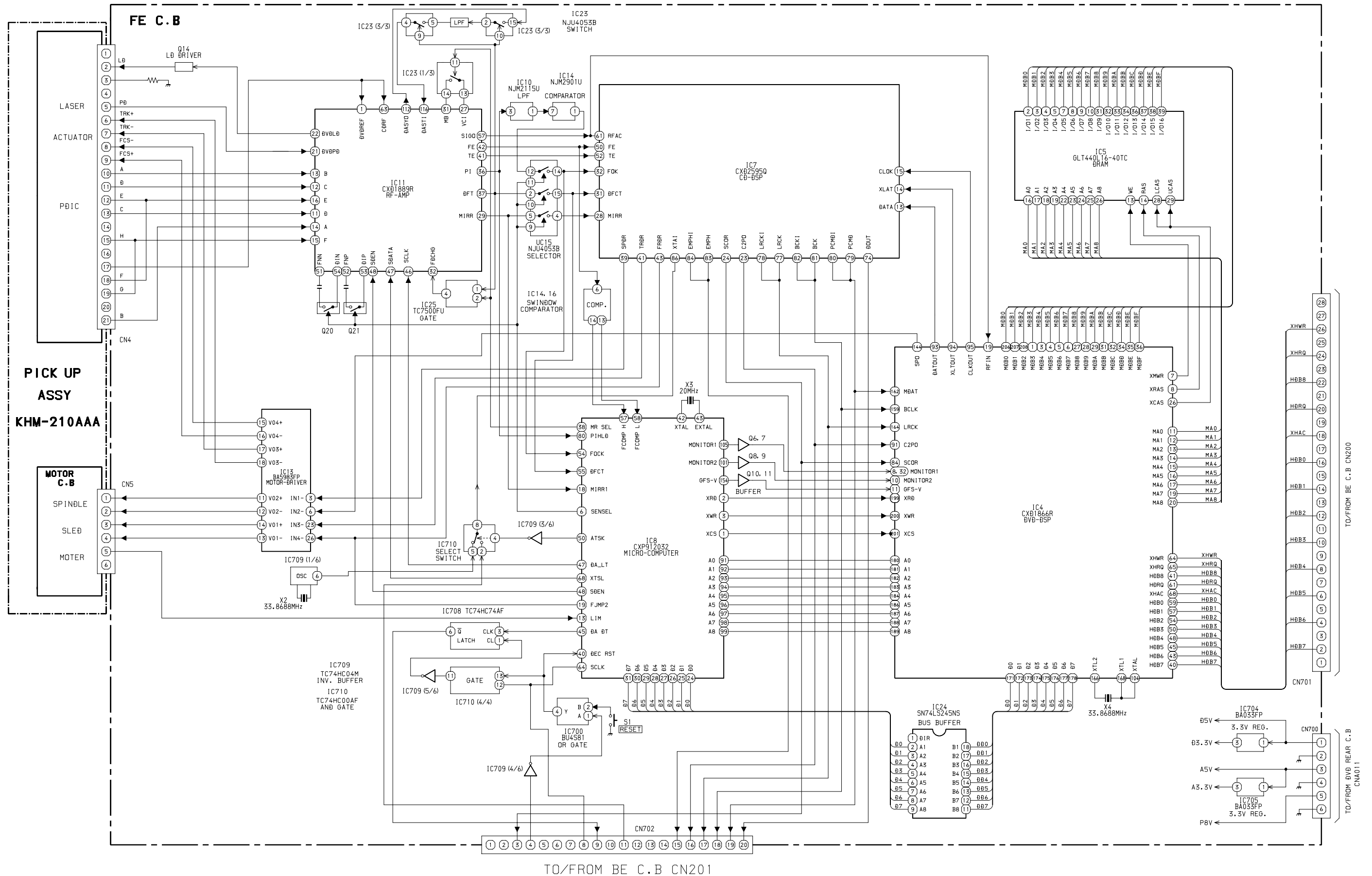
チップ抵抗
Chip resistor

| 容量 Wattage | 種類 Type | 許容誤差 Tolerance | 記号 Symbol | 寸法／Dimensions (mm) | | | | 抵抗コード : A Resistor Code : A |
|---------------|------------|-------------------|--------------|---|-----|------|------|--------------------------------|
| | | | | 外形／Form | L | W | t | |
| 1/16W | 1005 | ± 5% | CJ |  | 1.0 | 0.5 | 0.35 | 104 |
| 1/16W | 1608 | ± 5% | CJ | | 1.6 | 0.8 | 0.45 | 108 |
| 1/10W | 2125 | ± 5% | CJ | | 2 | 1.25 | 0.45 | 118 |
| 1/8W | 3216 | ± 5% | CJ | | 3.2 | 1.6 | 0.55 | 128 |

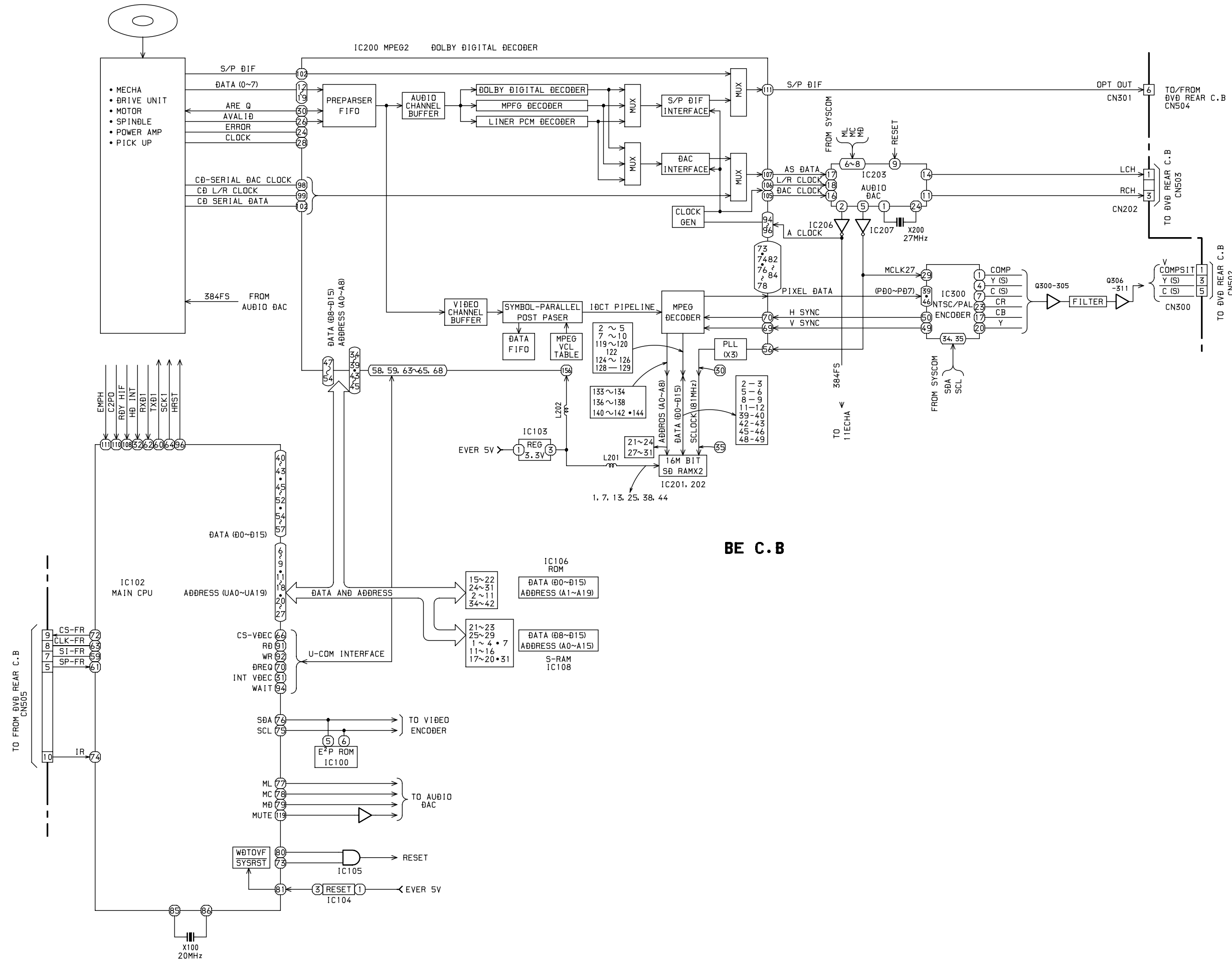
BLOCK DIAGRAM-1 (DVD VIDEO AMP/MECHA CONTROL)



BLOCK DIAGRAM-2 (RF AMP/CS DSP/DVD DSP)



BLOCK DIAGRAM-3 (CS DSP/A/D CONVERTER)





SCHEMATIC DIAGRAM-1 (DVD REAR/T-T/EXTENSION)

